DOCUMENT RESUME

ED 301 736 CE 051 523

TITLE Horticulture Series. Duty Task List.
INSTITUTION Oklahoma State Dept. of Vocational and Technical Education, Stillwater. Curriculum and Instructional Materials Center.
PUB DATE 88
NOTE 121p.; For other duty/task lists, see CE 051 510-538.
AVAILABLE FROM Curriculum and Instructional Materials Center, Oklahoma Department of Vocational and Technical Education, 1500 West Seventh Avenue, Stillwater, OK 74074.
PUB TYPE Guides - Classroom Use - Guides (For Teachers) (052)

EDRS PRICE MF01/PC05 Plus Postage.
DESCRIPTORS Agricultural Education; Behavioral Objectives; Employment Qualifications; Field Crops; Grounds Keepers; Herbicides; *Horticulture; Job Analysis; Job Skills; *Nursery Workers (Horticulture); *Occupational Information; *Ornamental Horticulture Occupations; Postsecondary Education

ABSTRACT

This document contains the occupational duty/task lists for 9 occupations in the horticulture series. Each occupation is divided into a number of duties. A separate page for each duty in the occupation lists the tasks in that duty along with its code number and columns to indicate whether that particular duty has been taught and to provide space for comments. The occupations are floral designer/florist; golf course, groundskeeper, park employee; garden center employee; greenhouse worker; interior plantscaper; nursery worker; vegetable grower; landscaper; and orchard employee. The occupational duty/task lists are the result of an extensive two-step development process in which information on current occupational requirements was gathered from such sources as consortia, trade associations, and current curriculum materials and was then synthesized by industry representatives, vocational instructors, and state-level representatives. (YLB)

**********
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
**********

ED301 736

# DUTY TASK LIST

# HORTICULTURE SERIES

FLORAL DESIGNER / FLORIST
GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE
GARDEN CENTER EMPLOYEE
GREENHOUSE WORKER
INTERIOR PLANTSCAPER
NURSERY WORKER
VEGETABLE GROWER
LANDSCAPER
ORCHARD EMPLOYEE

CE015523

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☒ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

R Maker

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

OKLAHOMA OCCUPATIONAL TESTING CENTER

# OKLAHOMA OCCUPATIONAL TESTING CENTER

**INTRODUCTION:**

Today's vocational instructors and administrators are faced with a myriad of important questions. They are searching for methods of providing accountability for students' acquisition of knowledge and skills as related to a constantly changing job market.

The Oklahoma Occupational Testing Center is in the business of eliminating some of the guesswork in answering today's tough questions. The professional staff, using a thorough and valid methodology, has developed duty/task lists for over 150 occupations in vocational education. Additional occupational duty/task lists will be made available as development is completed. These duty/task lists will help answer the following questions:

- Are students being prepared for today's jobs?
- What should today's vocational instructors be teaching?
- Is the curriculum addressing industry needs and is it up-to-date?
- How can vocational programs be improved?
- What in-service programs are needed for instructors?

**BACKGROUND:**

The occupational duty/task lists are the result of an extensive development process. Information regarding the occupational skills needed for employment is gathered from a number of sources such as consortia, trade associations, and current curriculum materials. This information is then synthesized by: 1) industry representatives, 2) vocational instructors, and 3) state level vocational representatives. The end result is a listing of occupations and the specific duties and tasks within each occupation. After dissemination for field review a committee of industry and vocational representatives revise the duty/task list to its final form.

**USES:**

The Oklahoma Occupational Testing Center's Duty/Task Lists are designed to be of value to a vocational program in several ways:

- Improving program planning
- Documenting industrial standards
- Evaluating curriculum and instruction
- Tracking individualized instruction*
- Using as a discussion tool with advisory committees
- Developing up-to-date job descriptions
- Performing self-evaluations
- Performing administrative program evaluations

**INFORMATION:**

To find out more about the Oklahoma Occupational Testing Center, call toll free:
**1-800-654-4502.**
Ask for our free catalog, listing over 150 occupations for which duty/task lists are available. CIMC curriculum materials related to these lists may also be available.

*A Progress Chart is provided for tracking individualized instruction.

Copyright 1988

Oklahoma State Department of Vocational and Technical Education
Oklahoma Occupational Testing Center

All rights reserved.

Printed in the United States of America by the
State Department of Vocational and Technical Education
Stillwater, Oklahoma 74074

The Oklahoma State Department of Vocational and
Technical Education does not discriminate on the
basis of race, creed, color, national origin, sex, age,
veteran status, or qualified handicap.

89-006024

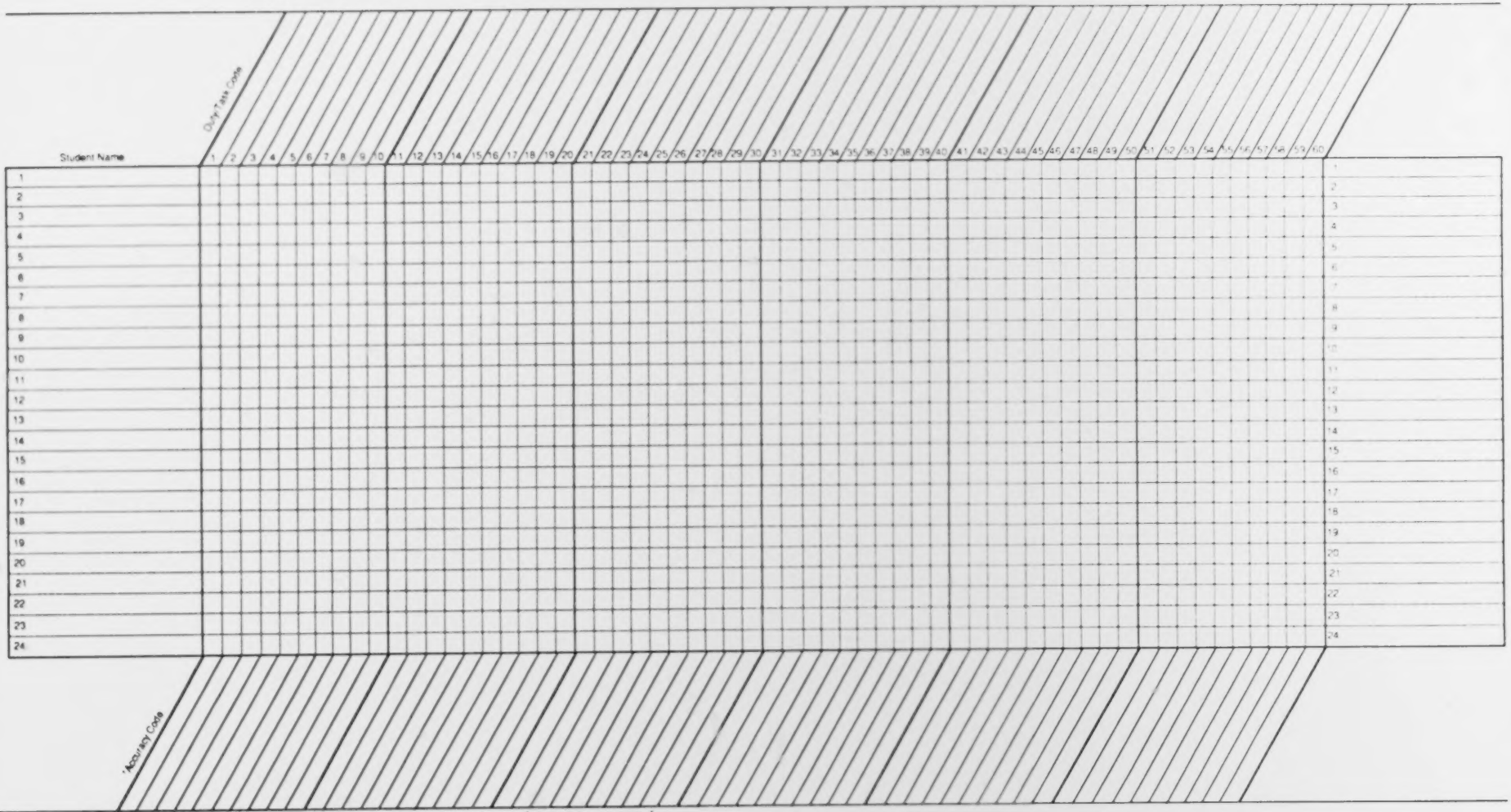
# PROGRESS CHART

## OKLAHOMA OCCUPATIONAL TESTING CENTER

Program

Oklahoma State Department of Vocational and Technical Education

Date




* 0 = No exposure - no information nor practice provided during training program; complete training required.
1 = Exposure only - general information provided with no practice time; close supervision needed and additional training required.
2 = Limited practice - has practiced during training program; additional training is required to develop skill.
3 = Moderately skilled - has performed independently during training program; limited additional training may be required.
4 = Skilled - can perform independently with no supervision.

This chart may be duplicated as needed.

QC3137



**This chart is intended for teacher file use only. Do not post.

# DUTY/TASK LISTS

# HORTICULTURE SERIES

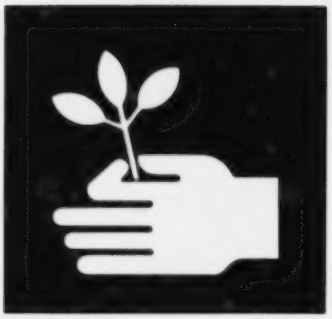
## OCCUPATIONS:

1. Floral Designer/Florist
2. Golf Course, Groundskeeper, Park Employee
3. Garden Center Employee
4. Greenhouse Worker
5. Interior Plantscaper
6. Nursery Worker
7. Vegetable Grower
8. Landscaper
9. Orchard Employee

OKLAHOMA OCCUPATIONAL TESTING CENTER

# DUTY/TASK LIST

# HORTICULTURE SERIES



## OCCUPATION 1: FLORAL DESIGNER/FLORIST

DUTIES:
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Propagate Plants, Seeds, and Cuttings**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Maintain Plants**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Harvest Plants, Seeds, and Cuttings**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.01 | Harvest cut flowers | | |
| D.02 | Prepare and place cut flowers in water or preservative | | |
| D.03 | Select and prepare plants for sale | | |

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Grow Crops**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.03 | Grow foliage plants | | |
| E.12 | Force potted bulbs | | |

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Control Plant Culture and Environment**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.02 | Force potted plants to bloom at seasonal times | | |
| F.07 | Maintain proper temperature in refrigerator | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.09 | Stake and tie greenhouse plants | | |
| F.12 | Apply liquid fertilizer | | |

**OCCUPATION:** FLORAL DESIGNER/FLORIST

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Maintain and Repair Equipment and Facilities**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |

**OCCUPATION:** FLORAL DESIGNER/FLORIST

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.02 | Hand water plants | | |

**OCCUPATION:** FLORAL DESIGNER/FLORIST

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.01 | Sleeve plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

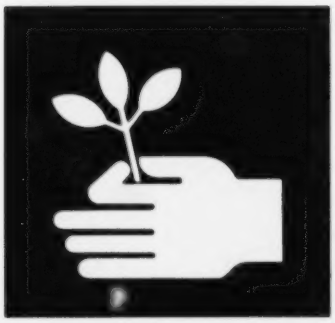
**OCCUPATION:** **FLORAL DESIGNER/FLORIST**

**DUTY:** **Sell Products**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.03 | Assist customer to select flowers | | |
| L.04 | Assist customer to select house plants | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |
| L.08 | Attach care cards to plants | | |
| L.09 | Condition cut flowers and greens | | |
| L.10 | Make up corsages | | |
| L.11 | Make floral arrangements | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES



## OCCUPATION 2: GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products
- M. Design Landscapes

OKLAHOMA OCCUPATIONAL TESTING CENTER

19 13

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.02 | Haul and spread topsoil | | |
| A.03 | Prepare a seedbed for lawn areas | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.16 | Level or smooth fields | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.08 | Take cuttings (including soft wood and evergreen hardwood) | | |
| B.09 | Remove rooted cuttings | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

OCCUPATION: GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

DUTY: Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.06 | Fill in holes or depressions in lawn (dirt and sod) | | |
| C.07 | Wrap trees or shrubs to protect from weather | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |
| C.12 | Stake newly-planted trees | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Harvest Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.04 | Dig, ball, and burlap shrubs and trees | | |
| D.05 | Harvest bulbs | | |

OCCUPATION: GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

DUTY: Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.01 | Grow bedding plants | | |
| E.02 | Grow geraniums | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Control Plant Culture and Environment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.01 | Apply growth regulating chemicals | | |
| F.03 | Install shade cloth | | |
| F.04 | Apply shading compound or paint to greenhouse | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.03 | Edge a sidewalk with an edger | | |
| I.04 | Rake leaves with a blower | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.06 | Mow grass with a mower (rotary or reel-type) | | |
| I.07 | Compact a newly seeded or sodded lawn with roller | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |
| I.09 | Aerate sod | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.02 | Care for overwintering of container group plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |

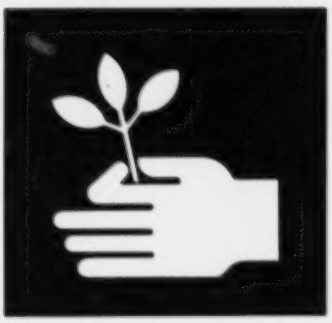
**OCCUPATION:** GOLF COURSE, GROUNDSKEEPER, PARK EMPLOYEE

**DUTY:** Design Landscapes

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| M.01 | Analyze residential site for landscape purposes | | |
| M.02 | Design public area planting | | |
| M.03 | Design for off-site factors | | |
| M.04 | Design flower garden (perennial or annual) | | |
| M.05 | Design vegetable garden | | |
| M.06 | Design drainage system | | |
| M.07 | Design outdoor privacy area | | |
| M.08 | Design service area | | |
| M.09 | Submit price estimation to customer | | |
| M.10 | Submit bid | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES



## OCCUPATION 3: GARDEN CENTER EMPLOYEE

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products
- M. Design Landscapes

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.02 | Haul and spread topsoil | | |
| A.03 | Prepare a seedbed for lawn areas | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.07 | Shred planting media | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.01 | Apply rooting hormone | | |
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.04 | Stick soft wood cuttings for rooting | | |
| B.05 | Stick hardwood cuttings for rooting (mature, dormant, deciduous) | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.08 | Take cuttings (including soft wood and evergreen hardwood) | | |
| B.09 | Remove rooted cuttings | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.06 | Fill in holes or depressions in lawn (dirt and sod) | | |
| C.07 | Wrap trees or shrubs to protect from weather | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |
| C.12 | Stake newly-planted trees | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Harvest Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.03 | Select and prepare plants for sale | | |
| D.04 | Dig, ball, and burlap shrubs and trees | | |
| D.05 | Harvest bulbs | | |



37

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.01 | Grow bedding plants | | |
| E.02 | Grow geraniums | | |
| E.03 | Grow foliage plants | | |
| E.05 | Grow vegetables (cool and warm season) | | |
| E.06 | Grow hanging baskets | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Control Plant Culture and Environment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.03 | Install shade cloth | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.09 | Stake and tie greenhouse plants | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.03 | Edge a sidewalk with an edger | | |
| I.04 | Rake leaves with a blower | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.06 | Mow grass with a mower (rotary or reel-type) | | |
| I.07 | Compact a newly seeded or sodded lawn with roller | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |
| I.09 | Aerate sod | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.02 | Hand water plants | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.01 | Sleeve plants | | |
| K.02 | Care for overwintering of container group plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.02 | Assist customer to select trees and shrubs | | |
| L.03 | Assist customer to select flowers | | |
| L.04 | Assist customer to select house plants | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |
| L.08 | Attach care cards to plants | | |

**OCCUPATION:** GARDEN CENTER EMPLOYEE

**DUTY:** Design Landscapes

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| M.01 | Analyze residential site for landscape purposes | | |
| M.02 | Design public area planting | | |
| M.03 | Design for off-site factors | | |
| M.04 | Design flower garden (perennial or annual) | | |
| M.05 | Design vegetable garden | | |
| M.06 | Design drainage system | | |
| M.07 | Design outdoor privacy area | | |
| M.08 | Design service area | | |
| M.09 | Submit price estimation to customer | | |
| M.10 | Submit bid | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 4: GREENHOUSE WORKER

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** **GREENHOUSE WORKER**

**DUTY:** **Prepare and Improve Soil**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.07 | Shred planting media | | |
| A.08 | Pasteurize and prepare media with electric sterilizer | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** **GREENHOUSE WORKER**

**DUTY:** **Propagate Plants, Seeds, and Cuttings**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.01 | Apply rooting hormone | | |
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.04 | Stick soft wood cuttings for rooting | | |
| B.05 | Stick hardwood cuttings for rooting (mature, dormant, deciduous) | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.08 | Take cuttings (including soft wood and evergreen hardwood) | | |
| B.09 | Remove rooted cuttings | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.08 | Design supporting structures for training vines | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Harvest Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.01 | Harvest cut flowers | | |
| D.02 | Prepare and place cut flowers in water or preservative | | |
| D.03 | Select and prepare plants for sale | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.01 | Grow bedding plants | | |
| E.02 | Grow geraniums | | |
| E.03 | Grow foliage plants | | |
| E.04 | Grow perennials | | |
| E.05 | Grow vegetables (cool and warm season) | | |
| E.06 | Grow hanging baskets | | |
| E.07 | Grow potted poinsettias | | |
| E.08 | Grow potted mums | | |
| E.09 | Grow cut mums | | |
| E.10 | Grow container nursery stock | | |
| E.11 | Grow Easter lillies | | |
| E.12 | Force potted bulbs | | |

**OCCUPATION:** **GREENHOUSE WORKER**

**DUTY:** **Control Plant Culture and Environment**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.01 | Apply growth regulating chemicals | | |
| F.02 | Force potted plants to bloom at seasonal times | | |
| F.03 | Install shade cloth | | |
| F.04 | Apply shading compound or paint to greenhouse | | |
| F.05 | Install black cloth to regulate photoperiod | | |
| F.06 | Provide the required light intensity for photoperiod control | | |
| F.07 | Maintain proper temperature in refrigerator | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.09 | Stake and tie greenhouse plants | | |
| F.10 | Raise or elevate supports for cut flowers | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** **GREENHOUSE WORKER**

**DUTY:** **Control Disease, Weeds, and Pests**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.01 | Sleeve plants | | |
| K.02 | Care for overwintering of container group plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** GREENHOUSE WORKER

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.03 | Assist customer to select flowers | | |
| L.04 | Assist customer to select house plants | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |
| L.08 | Attach care cards to plants | | |
| L.09 | Condition cut flowers and greens | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 5: INTERIOR PLANTSCAPER

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products
- M. Design Landscapes

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Prepare and Improve Soil**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** INTERIOR PLANTSCAPER

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Maintain Plants**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |
| C.12 | Stake newly-planted trees | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Grow Crops**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.03 | Grow foliage plants | | |
| E.06 | Grow hanging baskets | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Control Plant Culture and Environment**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.03 | Install shade cloth | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.09 | Stake and tie greenhouse plants | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Control Disease, Weeds, and Pests**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Maintain and Repair Equipment and Facilities**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** INTERIOR PLANTSCAPER

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.02 | Hand water plants | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** **INTERIOR PLANTSCAPER**

**DUTY:** **Store, Ship, Take Inventory, and Maintain Merchandise**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.01 | Sleeve plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** INTERIOR PLANTSCAPER

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.03 | Assist customer to select flowers | | |
| L.04 | Assist customer to select house plants | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |

**OCCUPATION:** INTERIOR PLANTSCAPER

**DUTY:** Design Landscapes

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| M.09 | Submit price estimation to customer | | |
| M.10 | Submit bid | | |
| M.11 | Design interior plantscapes | | |
| M.12 | Maintain interior plantscapes | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 6: NURSERY WORKER

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** NURSERY WORKER

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.02 | Haul and spread topsoil | | |
| A.03 | Prepare a seedbed for lawn areas | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.07 | Shred planting media | | |
| A.08 | Pasteurize and prepare media with electric sterilizer | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.16 | Level or smooth fields | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.01 | Apply rooting hormone | | |
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.04 | Stick soft wood cuttings for rooting | | |
| B.05 | Stick hardwood cuttings for rooting (mature, dormant, deciduous) | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.08 | Take cuttings (including soft wood and evergreen hardwood) | | |
| B.09 | Remove rooted cuttings | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.06 | Fill in holes or depressions in law (dirt and sod) | | |
| C.07 | Wrap trees or shrubs to protect from weather | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Harvest Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.03 | Select and prepare plants for sale | | |
| D.04 | Dig, ball, and burlap shrubs and trees | | |
| D.05 | Harvest bulbs | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.10 | Grow container nursery stock | | |
| E.12 | Force potted bulbs | | |
| E.13 | Grow fruits and nuts | | |
| E.14 | Grow small fruits | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Control Plant Culture and Environment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.03 | Install shade cloth | | |
| F.07 | Maintain proper temperature in refrigerator | | |
| F.08 | Adjust or control temperature (air conditioning, vents, fans, or wet pads) | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.06 | Mow grass with a mower (rotary or reel-type) | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.02 | Care for overwintering of container group plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** NURSERY WORKER

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.02 | Assist customer to select trees and shrubs | | |
| L.03 | Assist customer to select flowers | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |
| L.08 | Attach care cards to plants | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 7: VEGETABLE GROWER

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.07 | Shred planting media | | |
| A.08 | Pasteurize and prepare media with electric sterilizer | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.16 | Level or smooth fields | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or formbeds | | |

OCCUPATION: VEGETABLE GROWER

DUTY: Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.06 | Plant seeds | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.08 | Design supporting structures for training vines | | |

OCCUPATION: VEGETABLE GROWER

DUTY: Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.05 | Grow vegetables (cool and warm season) | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Control Plant Culture and Environment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.01 | Apply growth regulating chemicals | | |
| F.07 | Maintain proper temperature in refrigerator | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.05 | Prepare soil with rotary tiller | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.03 | Apply water in ditches or furrows (furrow irrigation) | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

OCCUPATION: VEGETABLE GROWER

DUTY: Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** VEGETABLE GROWER

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 8: LANDSCAPER

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products
- M. Design Landscapes

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** LANDSCAPER

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.02 | Haul and spread topsoil | | |
| A.03 | Prepare a seedbed for lawn areas | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soil in beds | | |
| A.16 | Level or smooth fields | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label planted specimens | | |
| B.03 | Plant bulbs | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** **LANDSCAPER**

**DUTY:** **Maintain Plants**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.01 | Add mulch to new seedlings | | |
| C.02 | Pinch plants | | |
| C.03 | Disbud flowering plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.06 | Fill in holes or depressions in lawn (dirt and sod) | | |
| C.07 | Wrap trees or shrubs to protect from weather | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |
| C.12 | Stake newly-planted trees | | |

**OCCUPATION:** **LANDSCAPER**

**DUTY:** **Control Plant Culture and Environment**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** **LANDSCAPER**

**DUTY:** **Control Disease, Weeds, and Pests**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with a centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.03 | Edge a sidewalk with an edger | | |
| I.04 | Rake leaves with a blower | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.06 | Mow grass with a mower (rotary or reel-type) | | |
| I.07 | Compact a newly seeded or sodded lawn with roller | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |
| I.09 | Aerate sod | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** LANDSCAPER

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.02 | Assist customer to select trees and shrubs | | |
| L.03 | Assist customer to select flowers | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |

**OCCUPATION:** **LANDSCAPER**

**DUTY:** **Design Landscapes**

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| M.01 | Analyze residential site for landscape purposes | | |
| M.02 | Design public area planting | | |
| M.03 | Design for off-site factors | | |
| M.04 | Design flower garden (perennial or annual) | | |
| M.05 | Design vegetable garden | | |
| M.06 | Design drainage system | | |
| M.07 | Design outdoor privacy area | | |
| M.08 | Design service area | | |
| M.09 | Submit price estimation to customer | | |
| M.10 | Submit bid | | |

# DUTY/TASK LIST

# HORTICULTURE SERIES

## OCCUPATION 9: ORCHARD EMPLOYEE

DUTIES:
- A. Prepare and Improve Soil
- B. Propagate Plants, Seeds, and Cuttings
- C. Maintain Plants
- D. Harvest Plants, Seeds, and Cuttings
- E. Grow Crops
- F. Control Plant Culture and Environment
- G. Control Disease, Weeds, and Pests
- H. Maintain and Repair Equipment and Facilities
- I. Operate Equipment
- J. Utilize Irrigation Systems
- K. Store, Ship, Take Inventory, and Maintain Merchandise
- L. Sell Products

OKLAHOMA OCCUPATIONAL TESTING CENTER

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Prepare and Improve Soil

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| A.01 | Control soil erosion | | |
| A.03 | Prepare a seedbed for lawn areas | | |
| A.04 | Convert subsoil to topsoil | | |
| A.05 | Take soil samples | | |
| A.06 | Interpret soil sample results | | |
| A.09 | Pasteurize media with chemicals | | |
| A.10 | Sterilize soils | | |
| A.11 | Apply lime and/or dolomite | | |
| A.12 | Prepare land for production | | |
| A.13 | Mix and prepare media materials for greenhouse plants | | |
| A.14 | Cultivate beds and plants | | |
| A.15 | Aerate compacted soils in beds | | |
| A.16 | Level or smooth fields | | |
| A.17 | Mark off location of beds | | |
| A.18 | Shape or form beds | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Propagate Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| B.02 | Label plant specimens | | |
| B.04 | Stick soft wood cuttings for rooting | | |
| B.05 | Stick hardwood cuttings for rooting (mature, dormant, deciduous) | | |
| B.06 | Plant seeds | | |
| B.07 | Plant shrubs and trees (bare-root, container, ball, and burlap) | | |
| B.08 | Take cuttings (including soft wood and evergreen hardwood) | | |
| B.09 | Remove rooted cuttings | | |
| B.10 | Label plants or cuttings | | |
| B.11 | Transplant plants | | |
| B.12 | Transplant plant materials to the field | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Maintain Plants

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| C.02 | Pinch plants | | |
| C.04 | Control grass at bed edges | | |
| C.05 | Control weeds and grass | | |
| C.07 | Wrap trees and shrubs to protect from weather | | |
| C.08 | Design supporting structures for training vines | | |
| C.09 | Prune trees | | |
| C.10 | Prune shrubs | | |
| C.11 | Prune hedges | | |
| C.12 | Stake newly-planted trees | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Harvest Plants, Seeds, and Cuttings

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| D.04 | Dig, ball, and burlap shrubs and trees | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Grow Crops

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| E.10 | Grow container nursery stock | | |
| E.13 | Grow fruits and nuts | | |
| E.14 | Grow small fruits | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Control Plant Culture and Environment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| F.07 | Maintain proper temperature in refrigerator | | |
| F.11 | Apply granular fertilizer (including slow-release) | | |
| F.12 | Apply liquid fertilizer | | |
| F.13 | Locate and report any malfunctions of fertilizer injection system | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Control Disease, Weeds, and Pests

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| G.01 | Report disease and insect damage | | |
| G.02 | Weed container-grown plants | | |
| G.03 | Apply mulches | | |
| G.04 | Apply pesticides to control pests | | |
| G.05 | Mix and apply chemicals | | |
| G.06 | Spray diseased plants | | |
| G.07 | Identify and report spray damage | | |
| G.08 | Remove diseased plants | | |
| G.09 | Set out poisoned bait to eradicate pests | | |
| G.10 | Apply dry chemicals to control weeds | | |
| G.11 | Apply liquid chemicals to control weeds | | |
| G.12 | Demonstrate safe handling, storage, and application of pesticides | | |
| G.13 | Demonstrate first aid treatment for pesticide poisoning | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Maintain and Repair Equipment and Facilities

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| H.01 | Clean and sharpen hand tools | | |
| H.02 | Clean sprayers | | |
| H.03 | Install sprinkler heads, nozzles, and other irrigation equipment | | |
| H.04 | Repair and paint greenhouse or nursery structures (benches) | | |
| H.05 | Lubricate and maintain equipment and machinery | | |
| H.06 | Order repair parts for equipment | | |
| H.07 | Replace plastic covering on greenhouse structures | | |
| H.08 | Repair or replace broken pipes, sprinkler heads, mist heads, and/or valves | | |
| H.09 | Replace gaskets on irrigation system | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Operate Equipment

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| I.01 | Apply fertilizer with a centrifugal spreader | | |
| I.02 | Apply fertilizer with drop-type hopper spreader | | |
| I.05 | Prepare soil with rotary tiller | | |
| I.06 | Mow grass with a mower (rotary or reel-type) | | |
| I.08 | Cut grass with power scythe (string trimmer) | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Utilize Irrigation Systems

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| J.01 | Set time control valves (clocks) | | |
| J.02 | Hand water plants | | |
| J.04 | Regulate overhead irrigation system (time clocks, mist systems) | | |
| J.05 | Regulate trickle irrigation system (ooze system) | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Store, Ship, Take Inventory, and Maintain Merchandise

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| K.02 | Care for overwintering of container group plants | | |
| K.03 | Check received merchandise against invoice listings | | |
| K.04 | Keep current inventory of products | | |
| K.05 | Load delivery vehicle | | |
| K.06 | Store received supplies | | |
| K.07 | Store received plant material | | |
| K.08 | Store flammable chemicals | | |

**OCCUPATION:** ORCHARD EMPLOYEE

**DUTY:** Sell Products

| CODE | TASK | TAUGHT | COMMENTS |
|---|---|---|---|
| L.01 | Fill customer orders for plants and merchandise | | |
| L.05 | Take orders by phone | | |
| L.06 | Write up customer orders | | |
| L.07 | Condition plants and products for sale (nursery stock, bedding plants, foliage, etc.) | | |